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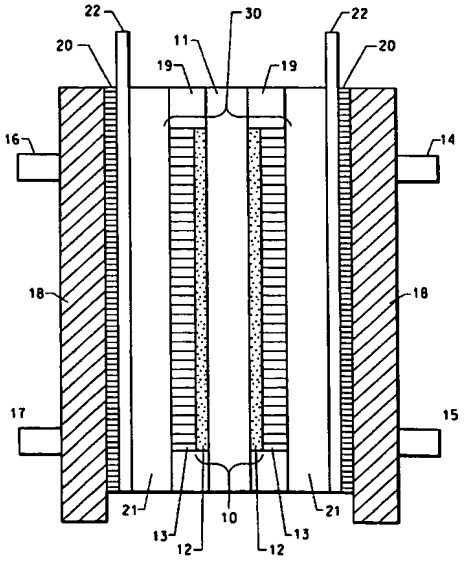
(54) Title: METHOD FOR REGENERATION OF PERFORMANCE IN A FUEL CELL



(57) Abstract: A process for improved performance in a fuel cell or stack of fuel cells wherein the fuel cell has a cathode, an anode, an anode chamber, a cathode chamber, a fuel comprising an anolyte that flows through the cell, and a catholyte gas, and wherein the fuel cell is connected to an external load, and wherein the process comprises taking the load off the cell, and cycling between a minimum voltage and about 50% of the maximum voltage drawn from the fuel cell until a maximum current is reached, or a minimum load and about 50% of the maximum load until a maximum voltage is reached. Fuel cell performance is further enhanced by purging.

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